Fujitsu recommends Windows.

Data Sheet
FUJITSU CELSIUS M740 Workstation

Bring Your Ideas To Life

The CELSIUS M740 workstation has been optimized to combat today's professional and technical challenges. It can be individually configured, helping you to enhance your productivity. The CELSIUS M740power is certified for Medical EMC standards IEC60601-1-2 to perform in healthcare environments. To round things off, a near-silent noise emission of 20 dB(A) allows you to work comfortably in the most quiet of working environments..

Perfomance you can count on
Spectrum of performance due to a wide range of professional grade features
- Next generation Intel® Xeon® processors, high performing graphics subsystems, quad-channel memory technology and high-speed hard disk drives

"IT made in Germany"
From design to production – an "IT made in Germany" quality in which you can trust
- Optimized thermal management and near-silent noise emission of 20 dB(A)

Stringent quality control
System stability through-out the complete lifecycle
- High product standards thanks to top-quality components and comprehensive testing in certified in-house laboratories for 24/7 operation

Certification of workstation applications
Stability, compatibility and performance for the main workstation applications
- Comprehensive support for ISV applications and ease of integration into existing IT networks

Expandability
Excellent expandability for future demands
- Increased memory capacities of up to 256 GB DDR4 memory

Components

Processor	Intel® Xeon® processor E5-2699v3 (18 cores, 2.30 GHz, 45 MB)
	Intel® Xeon® processor E5-2697v3 (14 cores, 2.60 GHz, 35 MB)
	Intel® Xeon® processor E5-2690v3 (12 cores, 2.60 GHz, 30 MB)
	Intel® Xeon® processor E5-2687Wv3 (10 Cores, 3.10 GHz, 25 MB)
	Intel® Xeon® processor E5-2680v3 (12 cores, 2.50 GHz, 30 MB)
	Intel® Xeon® processor E5-2670v3 (12 cores, 2.30 GHz, 30 MB)
	Intel® Xeon® processor E5-2667v3 (8 Cores, 3.20 GHz, 20 MB)
	Intel® Xeon® processor E5-2660v3 (10 Cores, 2.60 GHz, 25 MB)
	Intel® Xeon® processor E5-2650v3 (10 Cores, 2.30 GHz, 25 MB)
	Intel® Xeon® processor E5-2643v3 (6 Cores, 3.40 GHz, 20 MB)
	Intel® Xeon® processor E5-2640v3 (8 Cores, 2.60 GHz, 20 MB)
	Intel® Xeon® processor E5-2637v3 (4 Cores, 3.50 GHz, 15 MB)
	Intel® Xeon® processor E5-2630v3 (8 Cores, 2.40 GHz, 20 MB)
	Intel® Xeon® processor E5-2623v3 (4 Cores, 3.00 GHz, 10 MB)
	Intel® Xeon® processor E5-2620v3 (6 Cores, 2.40 GHz, 15 MB)
	Intel® Xeon® processor E5-2609v3 (6 Cores, 1.90 GHz, 15 MB)
	Intel® Xeon® processor E5-2603v3 (6 Cores, 1.60 GHz, 15 MB)
	Intel® Xeon® processor E5-1680v3 (8 Cores, 3.20 GHz, 20 MB)
	Intel® Xeon® processor E5-1660v3 (8 Cores, 3.00 GHz, 20 MB)
	Intel® Xeon® processor E5-1650v3 (6 Cores, 3.50 GHz, 15 MB)
	Intel® Xeon® processor E5-1630v3 (4 Cores, 3.70 GHz, 10 MB)
	Intel® Xeon® processor E5-1620v3 (4 Cores, 3.50 GHz, 10 MB)
	Intel® Xeon® processor E5-1607v3 (4 Cores, 3.10 GHz, 10 MB)
	Intel® Xeon® processor E5-1603v3 (4 Cores, 2.80 GHz, 10 MB)

Operating systems		
Operating system	Windows 8.1 Pro 64-bit Windows 7 Professional 64-bit	Windows 8.1 Pro 64-bit Windows 7 Professional 64-bit
Operating system compatible	Windows® Server 2012 Linux	Windows® Server 2012 Linux
Operating system notes	Certified for Red Hat© Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server	Certified for Red Hat© Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server

Memory modules	4 GB (1 module(s) 4 GB) DDR4, registered, ECC, 2,133 MHz, PC4-2133
	8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,133 MHz, PC4-2133
	16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 2,133 MHz, PC4-2133
	32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 2,133 MHz, PC4-2133

Graphics	Ultra-high-end 3D: AMD FirePro™ W9100, 16 GB, 2816 stream processors, PCIe x16, 6x miniDP, 6x miniDP/DP Adapter
	Ultra-high-end 3D: NVIDIA® Quadro® K6000, 12 GB, 2,880 cores, PCIe x16, 1x Dual Link DVI-I, 1x Dual Link DVI-D, 2x DisplayPort
	Ultra-high-end 3D: NVIDIA® Quadro® M6000, 12 GB, 2,880 cores, PCIe x16, 1x Dual Link DVI-I, 4 x DisplayPort
	Ultra-high-end 3D: NVIDIA® Quadro® K5200, 8 GB, 2304 cores, PCIe x16, 1x Dual Link DVI-I, DVI-D, 2x DisplayPort
	High-end 3D: AMD FirePro™ W7100, 8 GB, PCIe x16, 4 x DisplayPort
	High-end 3D: NVIDIA® Quadro® K4200, 4 GB, 1344 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Midrange 3D: NVIDIA® Quadro® K2200, 4 GB, 640 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Midrange 3D: AMD FirePro™ W5100 , 4 GB, PCIe x16, 4 x DisplayPort
	Entry 3D: AMD FirePro™ W4100, 2 GB, 512 stream processors, PCIe x16, 4x miniDP, 4x miniDP/DP Adapter
	Entry 3D: NVIDIA® Quadro® K620, 2 GB, 384 cores, PCIe x16, 1x Dual Link DVI-I, 1x DisplayPort
	Entry 3D: AMD FirePro™ W2100, 2 GB, 320 stream processors, PCIe x16, 2x DisplayPort
	Entry 3D: NVIDIA® Quadro® K420, 1 GB, 192 cores, PCIe x16, 1x Dual Link DVI-I, 1x DisplayPort
	Professional 2D: NVIDIA® NVS™ 510, 2 GB, 16 cores, PCIe 2.0 x16, 4x miniDP, 4x miniDP/DP Adapter
	Professional 2D: NVIDIA® NVS™ 315, 1 GB, 48 cores, PCIe 2.0 x16, 2x LFH59 (DP/DVI-I)
	GPU computing card: NVIDIA® Tesla® K20, 5 GB, 2,496 cores, PCIe x16
	GPU computing card: NVIDIA® GRID™ K1 16GB A, 16 GB, 768 cores, PCIe x16
	GPU computing card: NVIDIA® GRID™ K2 8GB A, 8 GB, 3,072 cores, PCIe x16
	Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2x miniDP, PCoIP
	Remote Graphics: CELSIUS RemoteAccess Quad Card, PCIe x1, 4x miniDP, PCoIP
Personal Supercomputing	Coprocessor: NVIDIA® Tesla® K40, 12 GB, 2,496 cores, PCIe x16
	Coprocessor: Intel® Xeon Phi™ Coprocessor 3120A, PCIe x16
	Coprocessor: Intel® Xeon Phi™ Coprocessor 5110P, PCIe x16
Hard disk drives (internal)	SSHD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch
	SSD SATA III Premium, 512 GB, 2.5-inch
	SSD SATA III Premium, 256 GB, 2.5-inch
	SSD SATA III Premium, 128 GB, 2.5-inch
	SSD SATA III, 256 GB, 2.5-inch, SED bay
	SSD SATA III, 256 GB, 2.5-inch
	SSD SATA III, 128 GB, 2.5-inch, SED bay
	SSD SATA III, 128 GB, 2.5-inch
	SSD PCIe 2x512GB Highend card
	SSD PCIe 2x256GB Highend card
	SSD PCIe 1x512GB Highend card
	SSD PCIe 1x256GB Highend card
	HDD SATA III, 10,000 rpm, 1,000 GB, 2.5-inch, business critical
	HDD SATA III, 10,000 rpm, 500 GB, 2.5-inch, business critical
	HDD SATA III, 7,200 rpm, 4,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 3,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch
	HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch
	HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch
	HDD SAS, 15,000 rpm, 600 GB, 2.5-inch
	HDD SAS, 15,000 rpm, 300 GB, 2.5-inch
	HDD SAS, 10,000 rpm, 1200 GB, 2.5-inch
	HDD SAS, 10,000 rpm, 900 GB, 2.5-inch
	HDD SAS, 10,000 rpm, 600 GB, 2.5-inch
	HDD SAS, 10,000 rpm, 300 GB, 2.5-inch
Hard disk notes	*Disk imaging software of the customer must be 4k sector size / advanced format ready One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. 24/7 ready (business critical HDDs required)

Drives (optional)	BD Triple Writer SATA slim (tray)	
	DVD-ROM	
	DVD Super Multi	
	DVD Super Multi ultra slim	
	MultiCard Reader 24in1 USB 2.0 3.5"	
SCSI / SAS Controller	RAID 5/6 Ctrl. 12 Gbit/s 8 ports int.	
	RAID 0/1 Ctrl. 12 Gbit/s 8 ports int.	
	RAID 0/1 Ctrl. 6 Gbit/s 8 ports int.	
Interface add on cards/components (optional)		
	WLAN 802.11 a/g/n (2x2), (dedicated regions only, not for Indonesia)	
	Gigabit Ethernet PCIe x1, DS	
	eSATA Interface	
	Dual serial card PCIe x1	
	Dual 10 Gigabit Ethernet PCIe x8	
Base unit	CELSIUS M740	CELSIUS M740 power
Mainboard		
Mainboard type	D3348	
Formfactor	ATX	
Chipset	Intel® C612	
Processor socket	Socket R3	
Processor quantity maximum	1	
Memory slots	8 DIMM (DDR4) ECC	
Supported capacity RAM (max.)	256 GB	
LAN	Built-in 10/100/1,000 MBit/s Intel® I217LM	
BIOS version	AMI Aptio V	
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)	
Audio type	On board	
Audio codec	Realtek ALC671	
Audio features	High Definition Audio	
I/O controller on board		
Serial ATA total	10	
thereof SATA III	10	
Controller functions	Serial ATA III (6 Gbit) AHCI RAID 0/1/5/10	
Interfaces		
Audio: in (rear)	1	
Audio: out (rear)	1	
Audio: in	1	
Audio: out	1	
Internal speakers	1	
USB 2.0 total	9	
USB 3.0 total	4	
USB front	4 (2x USB 3.0)	
USB rear	6	
USB internal	3, thereof 1 type A	
Ethernet (RJ-45)	1	
Interface Module notes	Anytime USB charge functionality	

Input device / components		
	Optical USB tilt wheel mouse	
Input devices (optional)	Keyboard Optical USB tilt wheel mouse Optical USB wheel mouse	
Drive bays		
Drive bays total	12	
2.5-inch internal bays	8	
3.5-inch internal bays	4	
3.5-inch external bays	2	
5.25-inch external bays	1	
Drive bay notes	Up to 8x 2.5-inch HDDs (cold plug) and 1x 2.5-inch SSD or Up to 4x 3.5-inch HDDs (cold plug) and 1x 2.5-inch SSD or Up to 2x 2.5-inch and 2x 3.5-inch HDDs (cold plug) and 1x 2.5-inch SSD	
Slots		
PCI-Express 3.0 x4 (mech. x8)	1 x (170 mm / 6.69 inch) Full height	
PCI-Express 3.0 x4 (mech. x16)	1 x (340 mm /) Full height	
PCI-Express 3.0 x16	2 x (340 mm / 13.39 inch) Full height	
PCI-Express 2.0 x4 (mech. x16)	1 x (340 mm / 13.39 inch) Full height	
PCI-Express 2.0 x1 (mech. x8)	2 x (100 mm / 3.94 inch) Full height	
Electrical values		
Power consumption note	300 W depending on configuration	500 W depending on configuration
Rated voltage range	100 V - 240 V	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz	50 Hz - 60 Hz
Operating voltage range	100 V - 240 V	100 V - 240 V
Operating line frequency range	50 Hz - 60 Hz	50 Hz - 60 Hz
Max. output of single power supply	600 W up to 90% efficiency	1000 W up to 90% efficiency
Power factor correction/active power	active	active
Power supply output	1 graphics power rails (8pin connector / 18.5A@12V)	2 graphics power rails (8pin connector / 18.5A@12V)
Noise for standard configuration (HDD, ODD, FDD)		
Related Processors for noise	Intel® Xeon® E5-2687v3 w/ NVIDIA® NVS® 315	Intel® Xeon® E5-2687v3 w/ NVIDIA® NVS® 315
Standard noise emission	According to ISO 7779:2010, ECMA-74	According to ISO 7779:2010, ECMA-74
Standard noise notes / description	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))
Standard noise operation mode: CPU 50% load	3.7 B / 21 dB(A) Bystander position	3.7 B / 21 dB(A) Bystander position
Standard noise operation mode: CPU 90% load	3.7 B / 21 dB(A) Bystander position	3.7 B / 21 dB(A) Bystander position
Standard noise operation mode: HDD load	3.8 B / 22 dB(A) Bystander position	3.8 B / 22 dB(A) Bystander position
Standard noise operation mode: Idle mode	3.7 B / 21 dB(A) Bystander position	3.7 B / 21 dB(A) Bystander position
Standard noise operation mode: ODD load	4.5 B / 27 dB(A) Bystander position	4.5 B / 27 dB(A) Bystander position
Standard noise operation mode: Office applications 2.0	3.7 B / 21 dB(A) Bystander position	3.7 B / 21 dB(A) Bystander position
Dimensions / Weight / Environmental		
Dimensions (W x D x H)	186 x 481 x 430 mm	
Operating position	Vertical / horizontal	
Weight	18 kg	
Weight notes	Actual weight may vary depending on configuration	
Operating ambient temperature	10 - 35 °C (50 - 95 °F)	
Operating relative humidity	5 - 85 % (relative humidity)	

Compliance		
Product	CELSIUS M740	CELSIUS M740 Power
Model	ETNA_S-D3348	
Germany	GS depending on configuration	
Europe	CE	
USA/Canada	FCC Class B cCSAus	
Global	RoHS (EU & China) Microsoft Operating Systems (HCT / HCL entry / WHQL) WEEE (Waste electrical and electronic equipment) EPEAT® Silver (dedicated regions) ENERGY STAR® 5.0 (dedicated regions)	
Taiwan	BSMI	
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates	
Additional Software		
Additional software (preinstalled)	Workplace Protect (secure authentication solution) McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version) Microsoft Office (buy license to activate the pre-installed Microsoft Office)	
Additional software (optional)	Drivers & Utilities DVD (DUDVD) Windows® 8 and Windows® 7	
Security		
Physical Security	Kensington Lock support Eye for padlock Intrusion switch Integrated cabinet lock (optional)	Kensington Lock support Eye for padlock Intrusion switch Integrated cabinet lock (optional)
System and BIOS Security	Write protect option for the Flash EPROM Boot protection for floppy disk / CD drive and write protection for floppy disk drive Control of all USB interfaces Trusted platform module (TPM 1.2) EraseDisk	Write protect option for the Flash EPROM Boot protection for floppy disk / CD drive and write protection for floppy disk drive Control of all USB interfaces Trusted platform module (TPM 1.2) EraseDisk
User Security	User and supervisor BIOS password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional)	User and supervisor BIOS password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional)
Manageability		
Manageability technology	DeskUpdate Driver management iAMT 9.0 (depending on CPU)	
Manageability software	DeskView Client DeskView Instant BIOS Management DeskView Integration for Symantec Management Platform	
DeskView components	Inventory Management BIOS Management Driver Management Security Management Alarm Management	
Supported standards	WMI BootP (made4you) PXE WoL (Wake on LAN)	
Manageability link	http://www.fujitsu.com/fts/manageability	
Miscellaneous		
	Rack mountable (5U)	Rack mountable (5U)
Spare part availability	5 years	5 years
Packaging information		
Packaging dimension (mm)	397 x 597 x 555 mm	397 x 597 x 555 mm
Packaging dimension (inch)	15.63 x 23.5 x 21.85 inch	15.63 x 23.5 x 21.85 inch
Max. quantity / pallet	16	16

Warranty	
Warranty period	3 years (depending on country)
Service level	Bring-In / Onsite Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 3 years material warranty)
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty
Product Support Services - the perfect extension	
Recommended Service	9x5, Onsite Response Time: Next Business Day
Spare Parts availability	5 years after end of product life
Service Weblink	http://www.fujitsu.com/fts/services/support

Recommended Accessories

Display P27T-7 LED		Enjoy perfect picture quality with 3.7 Mio pixels, outstanding ergonomics and usability as well as comfortable energy saving solutions of this 68.5 cm (27-inch) widescreen FUJITSU P Line Display. Energy Efficiency Class: A	Order Code: S26361-K1442-V140
Display P24W-7 LED		If you're a pixel, color and performance-hungry professional using demanding applications, the FUJITSU P24W-7 LED Display is the perfect choice. The display provides outstanding picture performance thanks to a cutting-edge graphic panel. It also boasts unique and innovative features such as our patent-applied Presence Sensor technology and the Always Available Powered USB Hub. Energy Efficiency Class: A+	Order Code: S26361-K1498-V140
Blue LED Mouse GL9000		Blue LED Mouse GL9000 comes in a slim design with proven Fujitsu engineering quality. The state-of-the-art blue LED sensor enables ultra precise switchable resolution at 1,000, 1,500 and 2,000 dpi. Blue LED Mouse GL9000 makes your life easier because it's tailor-made for right handed users. It just feels great in your hand.	Order Code: S26381-K438-L100
SpaceMouse™ Pro		Using the SpaceMouse™ Pro 3D mouse to navigate 3D models or environments is as simple as holding them in your hand. A slight movement of the controller cap delivers easy and precise control. SpaceMouse™ Pro is a companion to the traditional mouse and is operated with the free hand. Your traditional mouse hand is free to select, create and edit.	Order Code: S26381-K459-L100
Keyboard KBPC PX ECO		Fujitsu's KBPC PX ECO keyboard is the perfect contribution to Green IT. The keyboard is made out of 45% renewable raw material and comes with a PVC free USB cable. In addition, the KBPC PX ECO offers first class comfort and ergonomics. It attracts attention with its impressive modern design and useful extras.	S26381-K341-L1** (**: country specific variation)

More information

Fujitsu OPTIMIZATION Services

In addition to the FUJITSU CELSIUS M740, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio
Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products
www.fujitsu.com/global/products/computing/

Software
www.fujitsu.com/software/

More information

Learn more about the FUJITSU CELSIUS M740, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts/CELSIUS

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT.
Please find further information at http://www.fujitsu.com/global/about/environment

Green Policy Innovation

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